



National Transportation Safety Board Aviation Accident Final Report

Location:	ELIZABETH CITY, NC	Accident Number:	ATL83FA025A
Date & Time:	11/06/1982, 0910 EST	Registration:	N47MJ
Aircraft:	GATES LEARJET 25	Aircraft Damage:	Minor
Defining Event:		Injuries:	7 None
Flight Conducted Under:	Unknown		

Analysis

AFTER THE TWO ACFT WERE ESTABLISHED AT 14,000 FT DURING A TARGET TOWING OPERATION, N13MJ(LEAD ACFT) MAINTAINED STRAIGHT & LEVEL FLT ON AUTOPILOT WHILE N47MJ(CHASE) CAME UP ALONG THE LEFT SIDE TO OBSERVE THE TARGET ON THE LEFT WING. WHILE MOVING FORWARD & LOOKING OUT THE RIGHT WINDOW TO SEE A LIGHT ON THE TARGET, THE CHASE PLT LOST SIGHT OF THE LEAD ACFT. HE REDUCED PWR, & IN THE PROCESS OF BACKING AWAY, THE CHASE ACFT STRUCK THE TOP OF THE FLYING TAIL OF THE LEAD ACFT WITHITS RADOME JAMMING THE FLYING TAIL. THE LEAD ACFT PITCHED DOWN, LOST ABOUT 6,000 FT & THEN RECOVERED. DURING THE EMERGENCY LANDING OF THE LEAD ACFT, IT PITCHED OVER WHEN THE GEAR WAS EXTENDED ON SHORT FINAL, STRUCK THE GROUND HARD SHORT OF THE RWY, BOUNCED, & STARTED PORPOISING. AS THE PLT ADDED POWER FOR A GO-AROUND, THE ACFT STARTED TO ROLL. PWR WAS REDUCED, & ABOUT 5,000 FT DOWN THE RWY, THE GEAR COLLAPSED CAUSING THE ACFT TO VEER OFF THE RWY. THE PLT OF THE CHASE ACFT WAS NOT MILITARY TRAINED & HAD NO FORMAL FORMATION FLIGHT TRAINING.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: MIDAIR COLLISION

Phase of Operation: CRUISE - NORMAL

Findings

1. (C) AIRCRAFT HANDLING - IMPROPER - PILOT IN COMMAND
2. (C) CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND
3. (F) LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor	Age:	47, Male
Airplane Rating(s):	Multi-engine Land; Multi-engine Sea; Single-engine Land; Single-engine Sea	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Glider; Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine	Toxicology Performed:	
Medical Certification:	Class 1 Valid Medical--w/ waivers/lim.	Last Medical Exam:	06/04/1982
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	17000 hours (Total, all aircraft), 4500 hours (Total, this make and model), 30 hours (Last 90 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	GATES LEARJET	Registration:	N47MJ
Model/Series:	25 25	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	004
Landing Gear Type:	Retractable - Tricycle	Seats:	10
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	15000 lbs
Time Since Last Inspection:	10 Hours	Engines:	2 Turbo Jet
Airframe Total Time:	8300 Hours	Engine Manufacturer:	GE
ELT:	Not installed	Engine Model/Series:	CJ610
Registered Owner:	DUNCAN AVIATION	Rated Power:	2950 lbs
Operator:	DUNCAN AVIATION	Air Carrier Operating Certificate:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Observation Time:	0000
Distance from Accident Site:	0 Nautical Miles	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Temperature/Dew Point:	60° C / 0° C
Lowest Ceiling:	Unknown / 0 ft agl	Visibility	7 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	0 ft
Altimeter Setting:	29 inches Hg	Visibility (RVV):	0 Miles
Precipitation and Obscuration:			
Departure Point:	ELIZABETH CITY, NC (ECG)	Type of Flight Plan Filed:	IFR
Destination:	ELIZABETH CITY, NC (ECG)	Type of Clearance:	None
Departure Time:	0000	Type of Airspace:	

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Minor
Passenger Injuries:	5 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	7 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	Adopted Date:	11/06/1983
Additional Participating Persons:		
Publish Date:		
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .	

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